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AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of claims:

- 1. (Currently amended) An isolated polypeptide comprising the enzymatic catalytic domains of 1,3-1,4-β-D-glucanase and excluding the carboxyl terminal 78 amino acid residues of the 1,3-1,4- β -D-glucanase, wherein the 1,3-1,4- β -D-glucanase is a wild type 1,3-1,4-β-D-glucanase having SEQ ID NO: 1 and wherein the isolated polypeptide has a higher enzymatic activity than the wild type 1,3-1,4-β -D-glucanase, and wherein one of the catalytic domains includes the sequence of SEQ ID NO: 3 or 4.
- 2. (Withdrawn) The polypeptide of claim 1, wherein the polypeptide contains the sequence of SEQ ID NO: 7.
- 3. (Withdrawn) The polypeptide of claim 2, wherein the polypeptide contains the sequence of SEQ ID NO: 12.
 - 4. (Cancelled).
- 5. (Previously Presented) An isolated polypeptide comprising the sequence of SEQ ID NO: 8 and excluding the carboxyl terminal 78 amino acid residues of SEQ ID NO: 1 wherein the isolated polypeptide has a higher enzymatic activity than a wild type $1,3-1,4-\beta$ -D-glucanase having the sequence of SEQ ID NO: 1.
- 6. (Withdrawn) The polypeptide of claim 5, wherein the polypeptide contains the sequence of SEQ ID NO: 12.

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7. (Withdrawn) The polypeptide of claim 6, wherein the polypeptide contains the sequence of SEQ ID NO: 13 or 15.

- 8. (Original) The polypeptide of claim 1, wherein the polypeptide is glycosylated.
- (Withdrawn) The polypeptide of claim 8, wherein the polypeptide 9. contains the sequence of SEQ ID NO: 7.
- 10. (Withdrawn) The polypeptide of claim 9, wherein the polypeptide contains the sequence of SEQ ID NO: 12.
 - 11. (Cancelled).
- (Previously Presented) The polypeptide of claim 5, wherein the 12. polypeptide is glycosylated.
- 13. (Withdrawn) The polypeptide of claim 12, wherein the polypeptide contains the sequence of SEQ ID NO: 12.
- 14. (Withdrawn) The polypeptide of claim 13, wherein the polypeptide contains the sequence of SEQ ID NO: 13 or 15.
- (Withdrawn) An isolated nucleic acid comprising a sequence that encodes 15. the polypeptide of claim 1.
- 16. (Withdrawn) The nucleic acid of claim 15, wherein the polypeptide contains the sequence of SEQ ID NO: 7.

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17. (Withdrawn) The nucleic acid of claim 16, wherein the polypeptide contains the sequence of SEQ ID NO: 12.

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18. (Cancelled)

- 19. (Withdrawn) The nucleic acid of claim 15, wherein the polypeptide contains the sequence of SEQ ID NO: 8.
- 20. (Withdrawn) The nucleic acid of claim 19, wherein the polypeptide contains the sequence of SEQ ID NO: 12.
- 21. (Withdrawn) The nucleic acid of claim 20, wherein the polypeptide contains the sequence of SEQ ID NO: 13 or 15.
 - 22. (Withdrawn) A vector comprising the nucleic acid of claim 15.
- 23. (Withdrawn) The vector of claim 22, wherein the polypeptide contains the sequence of SEQ ID NO: 7.
- 24. (Withdrawn) The vector of claim 22, wherein the polypeptide contains the sequence of SEQ ID NO: 8.
 - 25. (Withdrawn) A host cell comprising the nucleic acid of claim 15.
- 26. (Withdrawn) The host cell of claim 25, wherein the host cell is a bacterium, yeast, insect, plant, or mammalian cell.
- 27. (Withdrawn) The host cell of claim 26, wherein the host cell is an *E. coli* or *P. pasrotis* cell.

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28. (Withdrawn) A method of producing a polypeptide, the method comprising:

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placing the host cell of claim 25 in a culture; expressing the polypeptide in the host cell; and, isolating the polypeptide from the culture.

29. (Previously Presented) The isolated polypeptide of claim 1, wherein the enzymatic catalytic domains include SEQ ID NOs: 3 and 4.